# PDS: EXLCanada EP 68/100/150/220 Semi Synthetic Pump Jack Oil

## PRODUCT DESCRIPTION

EXLCanada Lubricants EP 68/100/150/220 Semi Synthetic Pump Jack gear oil is specially formulated with premium quality, extreme-pressure lubricants designed for use in enclosed industrial gear drives operating under normal, heavy, or shock-loaded conditions. They are also recommended for lubricating plain or antifriction bearings running under heavy, or shock loaded conditions. EXLCanada EP Semi Synthetic Pump Jack gear oils are specially formulated to deliver sustained long-life, antiwear and extreme pressure protection to industrial gear drives and bearings. These oils are available in four ISO viscosity grades (220 not shown in table below)

## PRODUCT FEATURES & BENEFITS

EXLCanada Lubricants EP Semi Synthetic Pump Jack gear oil delivers value through the following benefits:

- Increases equipment life: Spherical tungsten disulfide nano particles ER (Energy Reducing)/AW/AF/EP additive under extreme pressure and anti-wear additives minimize wear by protecting surfaces
- Increases equipment life: Spherical tungsten disulfide nano particles ER/AW/AF/EP additive under extreme pressure and anti-wear additives minimize wear by protecting surfaces even when heavy loads or shocks cause lubricant film breakdown
- Reduces Friction: Spherical tungsten disulfide nano particles ER/AW/AF/EP additive reduces friction, improve efficiency, and reduces power consumption
- Stop Pitting: Spherical tungsten disulfide nano particles ER/AW/AF/EP additive nanoparticles exfoliates, makes surface smooth, fills cracks or pitting wear spots and increase equipment life.
- Heat transfer: Our WS2 nano particles improve heat transfer
- Reduce Equipment downtime: Our corrosion inhibitor and anti-wear additive prevents the production of rust, deposits, varnishes, and sludge, which can damage metal surfaces and oil seals. Oil reduces gear, bearing wear, reduces maintenance costs and extends equipment life

## APPLICATION USE

- Smooth operation: Our fluid proved excellent stability, Viscosity Index and good pumpability at extreme low temperature. Oil also withstands high operating temperature for longer periods.
- Extreme pressure protection: Our Spherical tungsten disulfide nano particles ER/AW/AF/EP minimizes wear caused by heavy, repeated shock loading. Tackiness agents ensure oil adheres firmly to metal parts even under extreme stress. Spherical tungsten disulfide nano particles additive in gear oil prevents seizure, scuffing or spalling of gear teeth and bearing sur faces under shock-loaded condition.
- Good emulsifying characteristics: Fluid maintains a continuous lubricant film on metal surfaces and reduces water from displacing the lubricant and wetting the metal surface. Good water separability prevents emulsion formation and allows water to be drained off before oil is re-circulated.
- EXLCanada Lubricants PumpJack EP Semi Synthetic Gear Oils are versatile, high-quality lubricants recommended for use in all types of enclosed industrial gear drives where an extreme pressure gear oil is specified. They are also recommended for lubricating all types of heavy or shock-loaded bearings. EXLCanada Lubricants PumpJack EP Semi Synthetic gear oils offer excellent gear and bearing protection and long service life in a wide range of gear designs. These include: Spur, Internal, Planetary, Rack & Pinion, Bevel, Spiral-Bevel, Helical, and Herringbone.

## SPECIFICATIONS AND APPROVALS

EXLCanada Lubricants EP Semi Synthetic Pump Jack gear oil meets the requirements of and are recommended for use in the following applications where the appropriate viscosity is specified:

- AGMA 9005 D-24, 250.04, 251.02
- US Steel 224
- DIN 51517 Part 3
- ISO 12925-1 type CKC
- API Service GL-2
- Cincinnati Machine/Milacron

## TECHNICAL SPECIFICATIONS

| Physical Properties | Test Method | PumpJack Gear Oil | | |
|---|---|---|---|---|
| | | ISO 68 | ISO 100 | ISO 150 |
| **Color** | | | | |
| **AGMA Grade** | | 2EP | 3EP | 4EP |
| **API Gravity** | ASTM D1298 | 31 | 28.8 | 28.8 |
| **Viscosity at 40C cSt** | ASTM D445 | 68 | 100 | 150 |
| **Viscosity at 100C cSt** | ASTM D445 | 8.5 | 11.2 | 14.4 |
| **Viscosity Index** | ASTM D2270 | 109 | 97 | 100 |
| **Flash point C** | ASTM D92 | 220 | 220 | 272 |
| **Pour point C** | ASTM D5950 | -39 | -40 | -33 |
| **Four ball Weld Load** | ASTM D4172 | 250 | 250 | 250 |
| **Four ball Scar diameter** | ASTM D2782 | 0.33 | 0.29 | 0.26 |
| **Foam test** | ASTM D892 | 0 | 0 | 0 |
| **Rust test** | ASTM D665 | Pass | Pass | Pass |

All stated physical properties are typical of standard production and may vary